

157540

SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800
Rev. 3/15/2004 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date 6/24/05 Serial # 091849,537 Priority Application Date _____
Your Name Michael B Examiner # _____
AU 2822 Phone 272-1838 Room 5A30
In what format would you like your results? Paper is the default. PAPER DISK EMAIL

If submitting more than one search, please prioritize in order of need. Need before 7/4

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: _____

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. _____

What types of references would you like? Please checkmark:

Primary Refs ☒ Nonpatent Literature _____ Other _____
Secondary Refs ☒ Foreign Patents _____
Teaching Refs _____

What is the topic, such as the **novelty**, motivation, utility, or other specific facets defining the desired **focus** of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 13, 16, 17, 52-59, 69 & 70

Body

Please do an updated search.

Problem: See pages 2+3

Solution: " 3+4

Claims 2/11/05

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Searcher: Bob 1-Researcher

Searcher Phone: 225 41

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 02-05-05

Date Completed: 02-05-05

Searcher Prep/Rev Time: 40

Online Time: 240

Type of Search

Structure (#) _____

Bibliographic ☒

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors

STN _____

Dialog ☒

Questel/Orbit _____

Lexis-Nexis _____

WWW/Internet _____

Other _____

Set	Items	Description
S1	44422	SOLDER?(W) (BALL? ? OR BUMP? ? OR POST? ? OR SPHERE? OR PAD? ?) OR BGA? ? OR BALLGRID? ? OR BALL(W)GRID? ? OR POLYMER(W)B- ALL? ?
S2	37991	CONTACT(2N) (PAD? ? OR PIN??? OR PLUG?)
S3	5011042	CHIP? ? OR IC? ? OR WAFER? ? OR SEMICONDUCTOR? OR PACKAGE - OR SEMI()CONDUCTOR?
S4	871366	(FIRST OR SECOND OR TOP? ? OR BOTTOM OR UPPER OR LOWER) (2N-) (SURFACE OR SIDE)
S5	76685	(HEAT OR THERMAL OR TEMP?) (3N) (SPREAD???? OR DISSIPAT?????- ?)
S6	2597	RING(3N)STIF?????
S7	33546	FLIP()CHIP?
S8	3859	CONDUCT?() (PAD???? OR BUMP?)
S9	919	S1 AND S3 AND S2
S10	15	S9 AND (S5 OR S6) AND S4
S11	2	S7 AND S10
S12	2	RD (unique items)
S13	13	S10 NOT S12
S14	13	RD (unique items)
S15	5	S5 AND S6 AND S4
S16	5	S15 NOT S10
S17	5	RD (unique items)
S18	8741569	VIOD? ? OR GAP? ? OR VIA OR VIAS OR VIRTUAL(W)INTERFACE(W-)ARCHITECTURE? OR HOLE? ? OR GROOVE? ? OR CHANNEL? ? OR TRENC- H??? OR PATHWAY OR FEEDTHROUGH? FEED(W)THROUGH? ? OR APERTURE OR ORIFICE OR SLIT?
S19	758	S3 AND S18 AND S8
S20	85	S19 AND CONDUCT?()MATERIAL
S21	2	S20 AND S5
S22	26	S19 AND S5
S23	24	S22 NOT (S10 OR S17 OR S21)
S24	24	RD (unique items)
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